

TECHNICAL SPECIFICATIONS

TP-series	
FINAL PACKAGE	
Knotless Weight Capacity	1200gms / 1500gms / 1800gms / 2400gms
Take-Up Tube Lengths	170mm OR 230mm parallel tubes
Overfeed	Teeth-Type with DeTensioner (optional)
Package Density	Can be provided for Hard or Soft package (for Dyeing)
SPINDLE	
Primary / Secondary Type	60/90 , 70/110 , 90/125 , 110/145
Yarn Sensing	Optical Yarn Sensing with Cutter for PRIMARY
Dropper	Only available in Secondary
TRAVERSE	
Package Formation	Central BiConical / Individual BiConical
Winding Features	Anti-Patterning & Edge Breaking
Lubrication	Closed Oil-Circulation with Motorized Pump
OPERATING PARAMETERS	
Yarn Range (max.)	50-150dn / 75-300dn / 75-900dn / 150-1200dn
Twist Range (recommended)	150-800 TPM
Ply Setup	2-Ply Setup or 3-Ply Setup
FRAME STRUCTURE	
Structure	PRIMARY: Lower Deck; SECONDARY: Upper Deck
Frame	Laser Cut, Steel Frame Structure
Drive End	Programmable RPM with VFD Inverter (Optional)

*Note: Product Technical Specifications May Change Without Prior Notice. It is recommended to verify the important specs before placing order.

NOTES

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Yarn speed
(mtrs/min)

=

$\frac{2 \times \text{Spindle RPM}}{\text{TPM}}$

Doff time
(minutes)

=

$\frac{9000 \times \text{Feed Wgt in gms}}{\text{Denier} \times \text{Yarn Speed in mtrs/min}}$

Max. Production
(gsm/day/spinder)

=

$\frac{0.32 \times \text{Spindle RPM} \times \text{Denier}}{\text{TPM}}$

WHY WEAVETECH ? ...

Whatever your **Twisting** or **Weaving** needs be, **Weavetech has a solution.**

Since 1985, **Weavetech** (formerly **Alidhra**) has been at the forefront of bringing world-class technologies within the reach of Indian Textile Industry, by encouraging an indigenous development with best-in-industry human resources & engineering infrastructure. It is the same passion that continues today ensuring Weavetech’s position within the top of the textile engineering industry having top-of-the-industry Clientele.

Regardless if your company is big or small, **Weavetech** understands that a new machine investment can make a world of difference to your business. The potential source of higher profitability, improved quality & dependable reliability will become just - **if the correct machinery is selected.** Development of **Weavetech**’s Machineries has been guided by the needs of customers to extract optimum value from their limited investments in Land, Manpower & Capital, ensuring easiest and fastest absorption of technology without straining their available resources and time.

Weavetech’s Machineries are the right step towards **getting more & getting better** value.

PRODUCT RANGE

Rapier Looms | WaterJet Looms | AirJet Looms | TFO Twisters | Thread / Doubler TFO Carpet Cablers | Industrial TFO | Dye Package Winders | Assembly Winders

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TP-series

TFO Twisters for 2/3 Ply Thread Mfg.
(Primary / Ply Twist) (Secondary / Cable Twist)



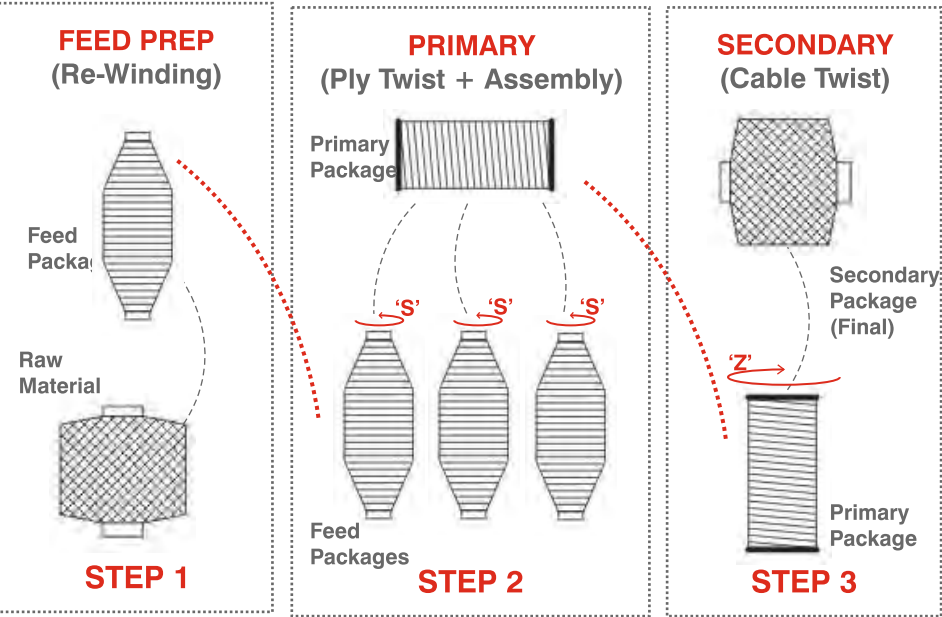
TP-series

TFO Twister for 2/3 ply Thread Mfg. (Ply & Cable Twist)

Weavetech's **TP-series** Thread projects are the most an economic method of production for 2-ply or 3-ply Twisted Filament threads for direct use in Embroidery & Sewing or in larger setups for Carpet Yarns, Tire Cords, Fish Nets & other heavy Industrial technical applications.

The flexibility of two-step process and low investment for high production, offers excellent value by keeping operating costs to the minimum & allowing faster Returns on Investment for the customer of Weavetech's **TP-series**.

THREAD MANUFACTURING PROCESS FLOW

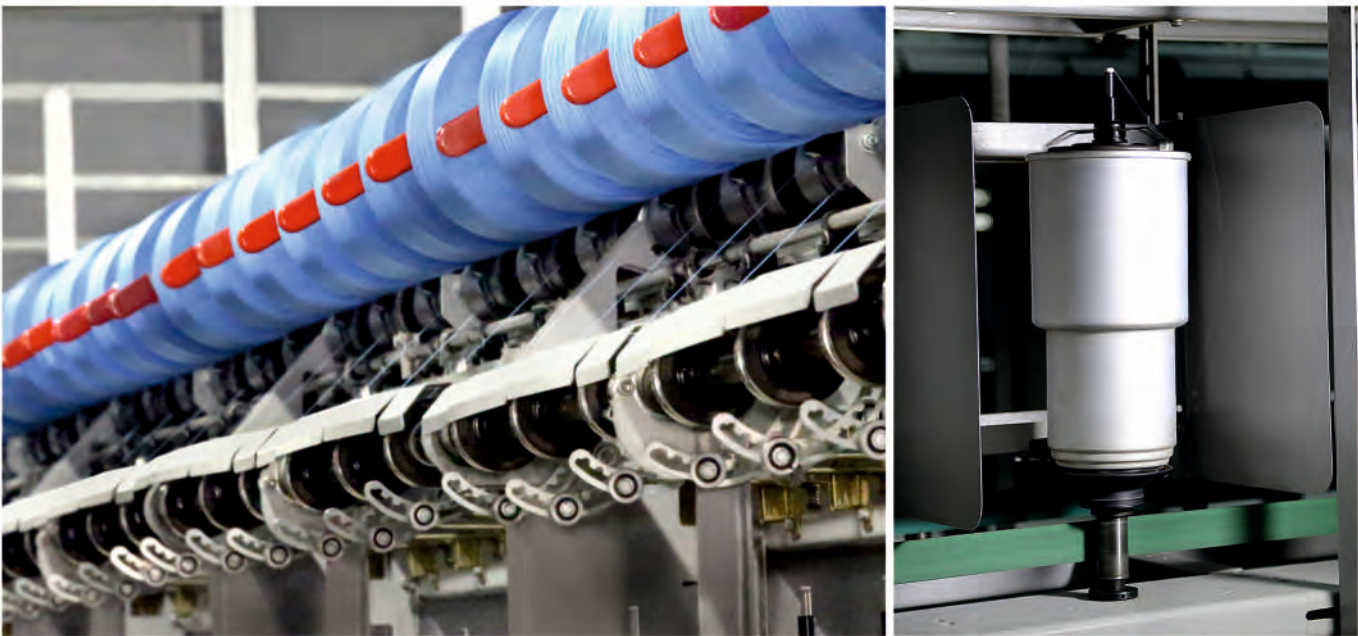


APPLICATION (ideal):

- Economic Production of Filament 2/3 Ply Yarns
- Sewing / Embroidery / Heavy Industrial Threads
- Soft-Package on Perforated Tube or Dye-Spring
- Knotless Package of upto 2.5kgs of 1800 denier

Highlights

- Twister for Light / Heavy / Industrial threads of Polypropylene, Polyester, Nylon & Viscose. (2-ply and/or 3-ply).
- Each PRIMARY spindle is equipped with Highly Sensitive Multi-Color Optical Sensor & quick-response Cutter to avoid yarn wastage in case of yarn breakages of either ply.
- Sturdy Cradle for Secondary Take-up offers Vibration Dampening & Auto-Pressure adjustment system for a precise package built with optimum quality.
- Direct Soft-Package can be taken on Perforated Tubes or Dye-Springs with optional gearbox offering Individual Bi-Conical Tapering & Edge Breaking system. (optional)
- Easy one-switch setup for the changeover from 2-ply to 3-ply system & vice versa.
- Common Overfeed in PRIMARY ensures uniform Ply tension in take-up which in turn ensures even tension during unwinding in the SECONDARY stage.
- Complete SS & ceramic yarn path including plasma coated Spindles ensures delicate handling of yarn for optimum quality.
- Complete Oil Bath Gearbox for High Yarn Speeds & life-time trouble free operation with the lowest maintenance costs.
- High Precision spindles manufactured in-house under strict QC ensures lowest Twist variations from spindle to spindle thus providing consistent & reliable output quality.



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Optical Sensing & Cutter

High Sensitivity Optical Sensor from light to darker shades allow trouble free changeovers. Quick-response cutter reacts immediately to cut the yarn in case of any ply absence is detected to avoid yarn wastage. The setup can easily be switched from 2-ply to 3-ply within minutes. This allows maximum flexibility for catering entire thread market.



Energy-Efficient Spindles

The energy-Saving design of the spindle offers better economy. State of the Art in-house spindle manufacturing allows better quality control as per global standards for reliable & consistent performance output.

PRIMARY: a wide range of Feed from 0.6-1.2 Kg knotless for each ply can be provided
SECONDARY: a wide range of Takeup from 1.2-2.5 Kgs knotless for final package can be provided.



De-Tensioner (optional)

A bearing De-Tensioner installed before overfeed allows adjustment of yarn winding tension based on specific requirements of package densities. It regulates the contact area of yarn with overfeeding thus allowing better control of yarn tensions to ensure proper yarn tenacity & quality.

High-Speed Gearbox

Heavy-Duty closed continuous oil-circulation with Sturdy design sustains high traverse CPM Strokes for high speed operations or for ready-to-dye soft packages. Twists / TPM can be easily adjusted on the same gearbox with minimal effort within a few minutes. Proven Metallurgy ensures consistent long-term performance.



Direct Soft Package (optional)

A special Gearbox option allows Bi-Conical winding with Edge-Breaking & Individual Taper mechanism to ensure optimum Soft-Package built for direct Heat Setting & Dyeing of Filament Yarns.

Individual BiConical Tapering (optional)

Advance Diameter feedback mechanical attachment with High-Pressure cradle provides accurate tapering on the packages with excellent Hard Package densities. This allows more yarn in given diameter for applications where the take-up packages are to be installed on a large creel. The system produces excellent soft-packages with uniform & consistent density with step-less taper even during yarn brakes. Thus allowing Random Doffing at anytime without fear of 'stitches' formation.



Pre-Assembled Delivery

Some Weavetech **TP-series** models are pre-assembled by trained engineers before dispatch. Factory assembly ensures that the most experienced hands have assembled & tested the machines to WEAVETECH standards so that the customers get consistent performance & quality.

- + Ensures Consistent & Reliable accuracy, performance & quality.
- + Save time & Start production faster.
- + Factory pre-assembly means QC output & ensure lower maintenance.